6822EP.ztechno

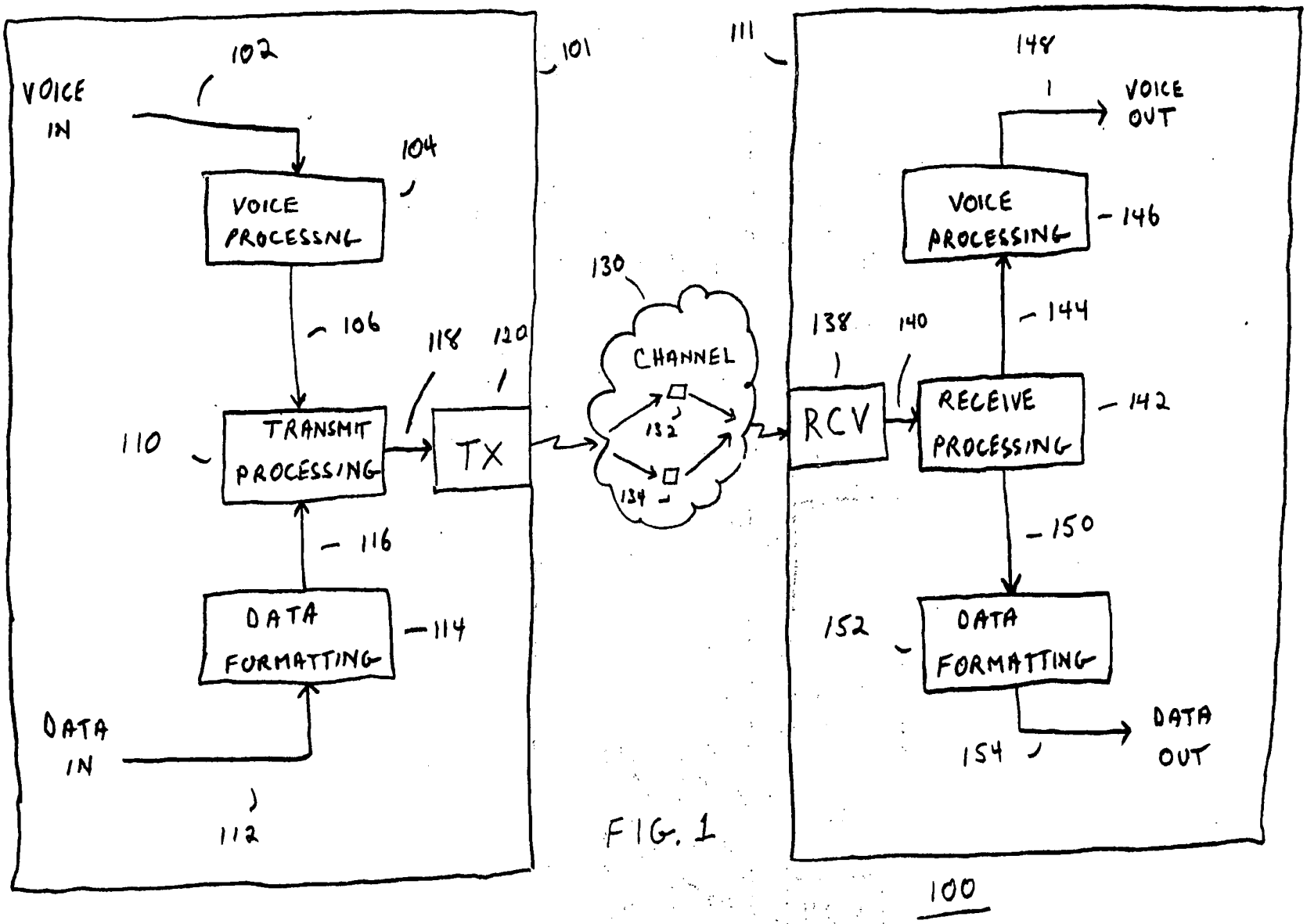


FIG. 1

Docket #21210

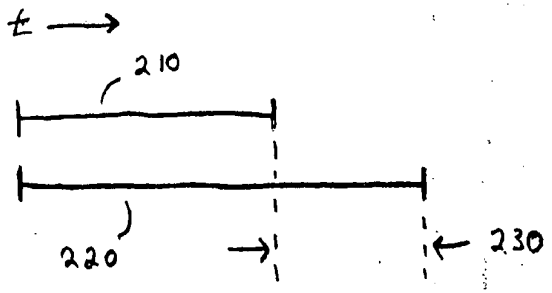


FIG 2.

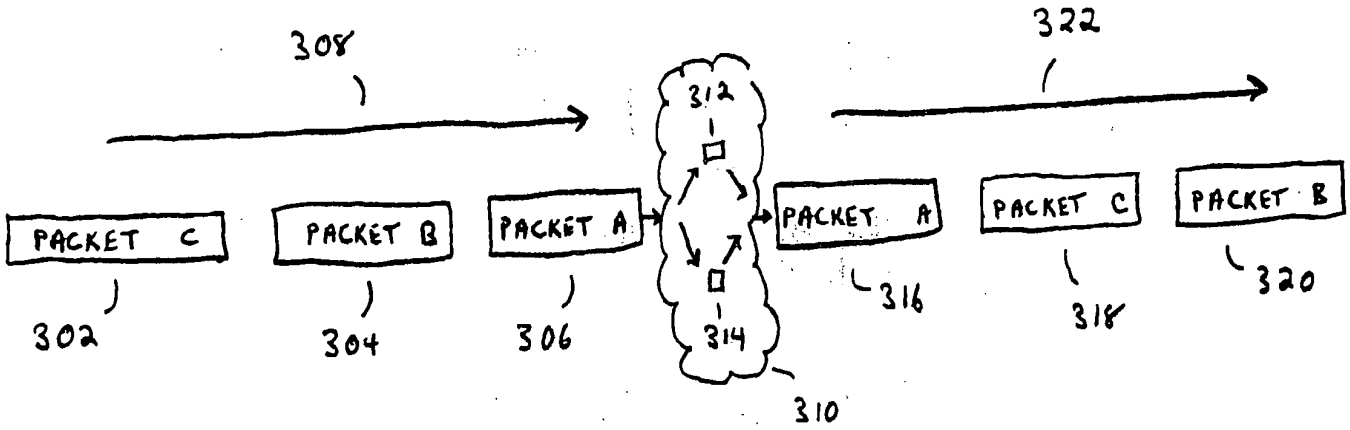


FIG. 3

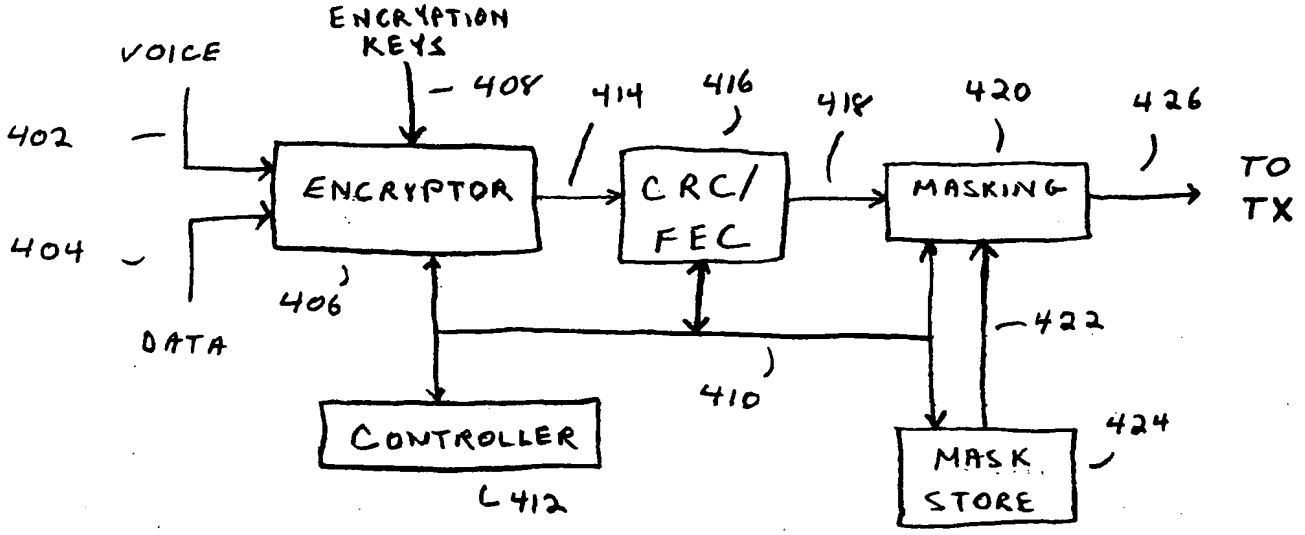

VOICE
ENCRYPTION KEYS
408
414
416
418
420
426
402
ENCRYPTOR
CRC/ FEC
MASKING
TO TX
404
406
DATA
422
410
CONTROLLER
412
MASK STORE
424
400

FIG. 4

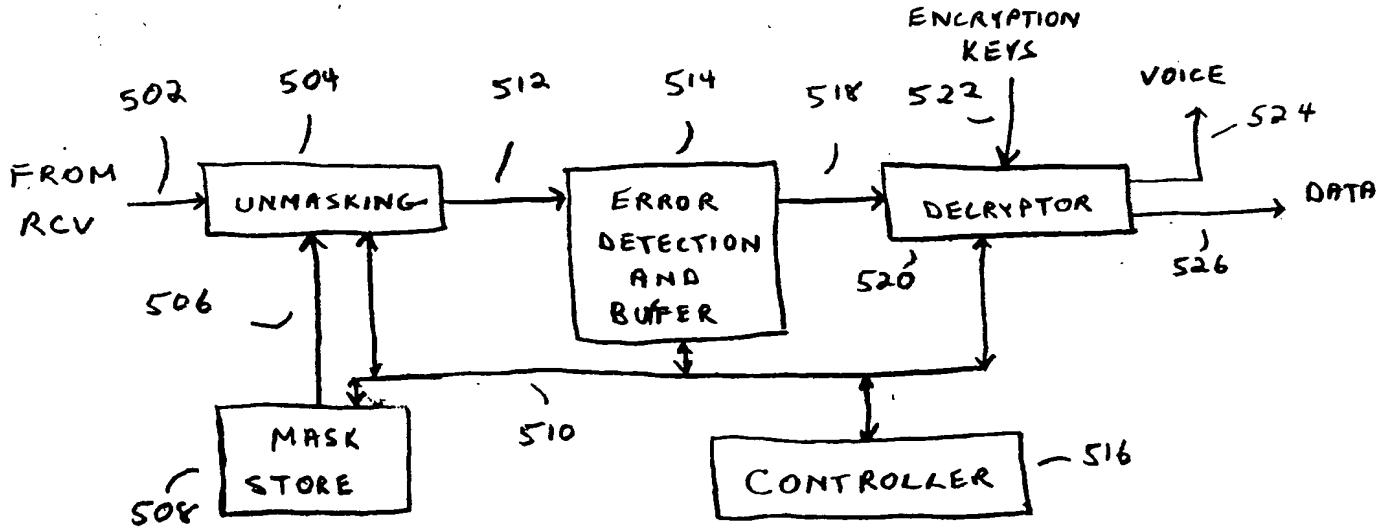
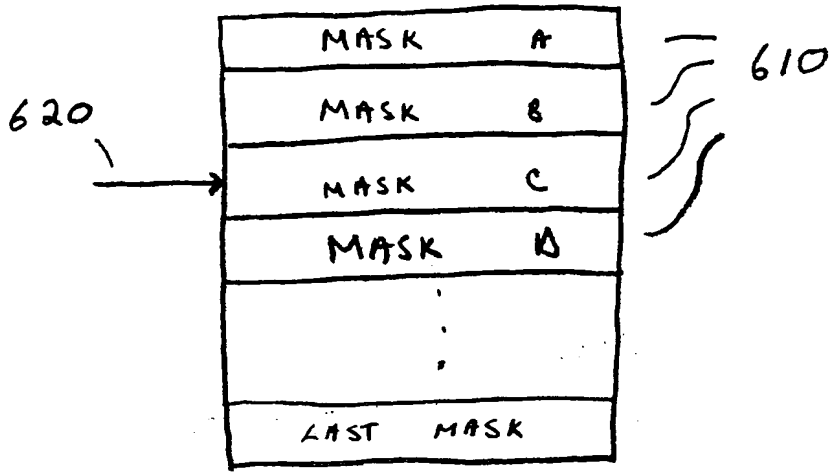

ENCRYPTION KEYS
502
504
512
514
518
522
VOICE
524
FROM RCV
UNMASKING
ERROR DETECTION AND BUFFER
DECRYPTOR
DATA
506
520
526
510
MASK STORE
508
CONTROLLER
516
500

FIG. 5



600

FIG. 6

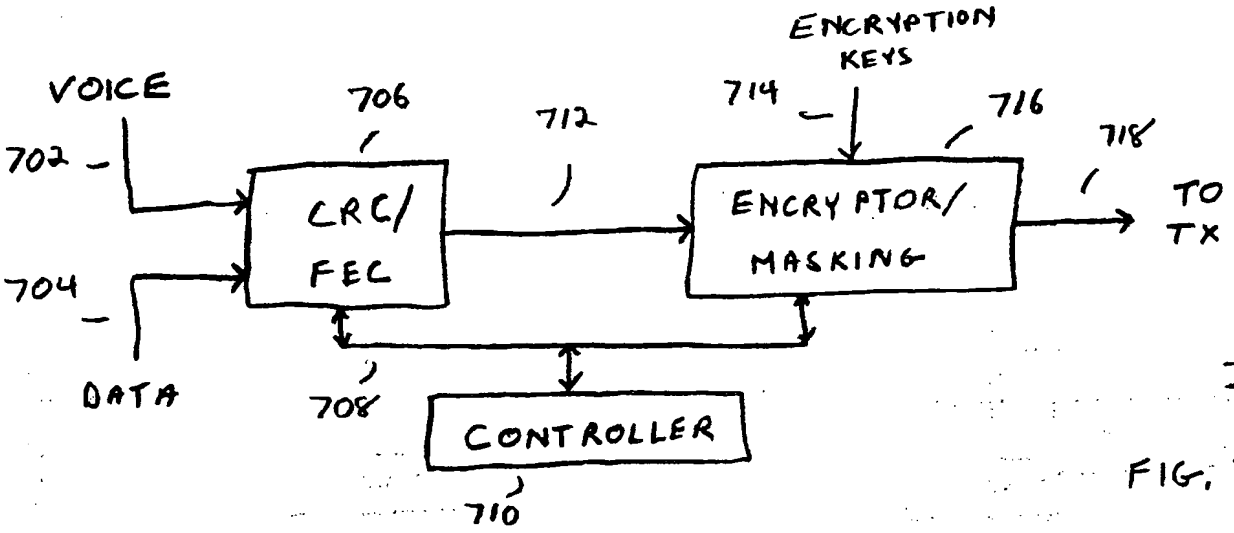

VOICE
702
706
712
ENCRYPTION KEYS
714
716
718
CRC/ FEC
ENCRYPTOR/ MASKING
TO TX
704
DATA
708
CONTROLLER
710
700

FIG. 7

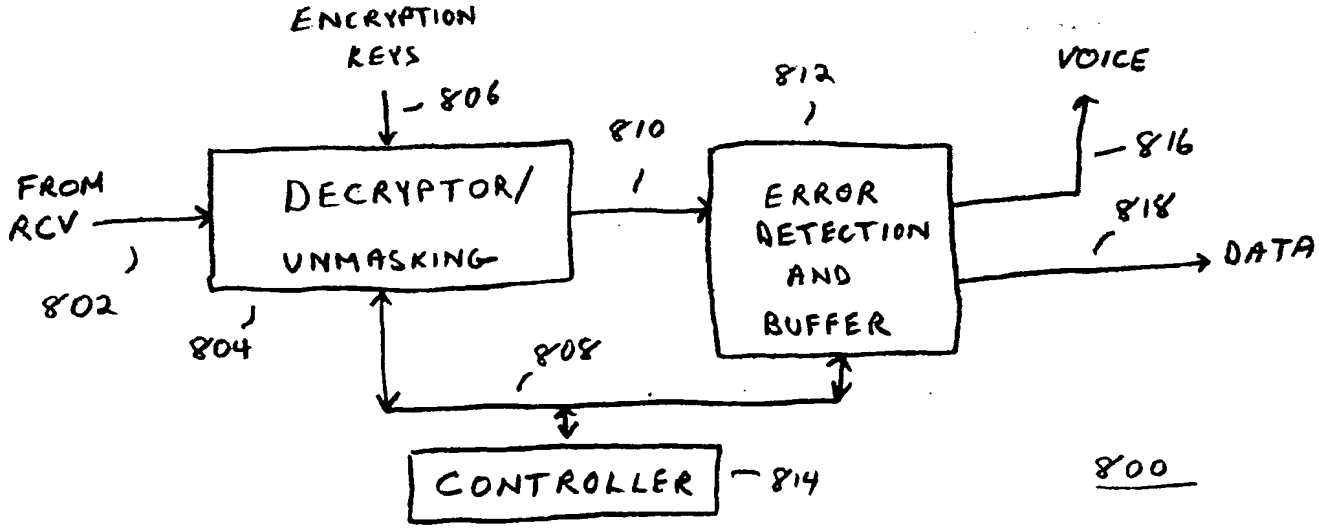
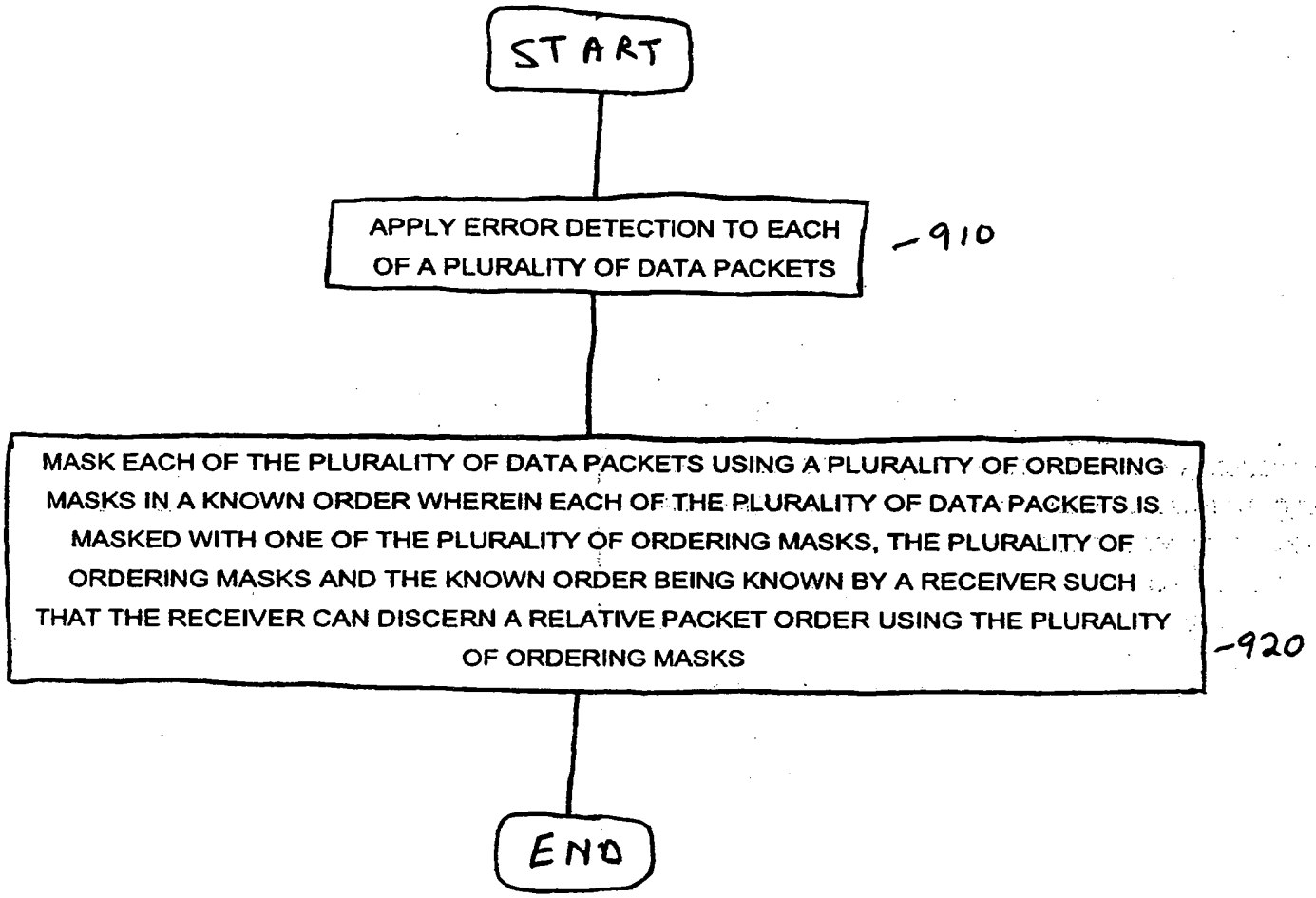

ENCRYPTION KEYS
806
810
812
VOICE
816
FROM RCV
802
DECRYPTOR/ UNMASKING
804
ERROR DETECTION AND BUFFER
818
DATA
808
CONTROLLER
814
800

FIG. 8


START
APPLY ERROR DETECTION TO EACH OF A PLURALITY OF DATA PACKETS
910
MASK EACH OF THE PLURALITY OF DATA PACKETS USING A PLURALITY OF ORDERING MASKS IN A KNOWN ORDER WHEREIN EACH OF THE PLURALITY OF DATA PACKETS IS MASKED WITH ONE OF THE PLURALITY OF ORDERING MASKS, THE PLURALITY OF ORDERING MASKS AND THE KNOWN ORDER BEING KNOWN BY A RECEIVER SUCH THAT THE RECEIVER CAN DISCERN A RELATIVE PACKET ORDER USING THE PLURALITY OF ORDERING MASKS
920
END

900

FIG. 9

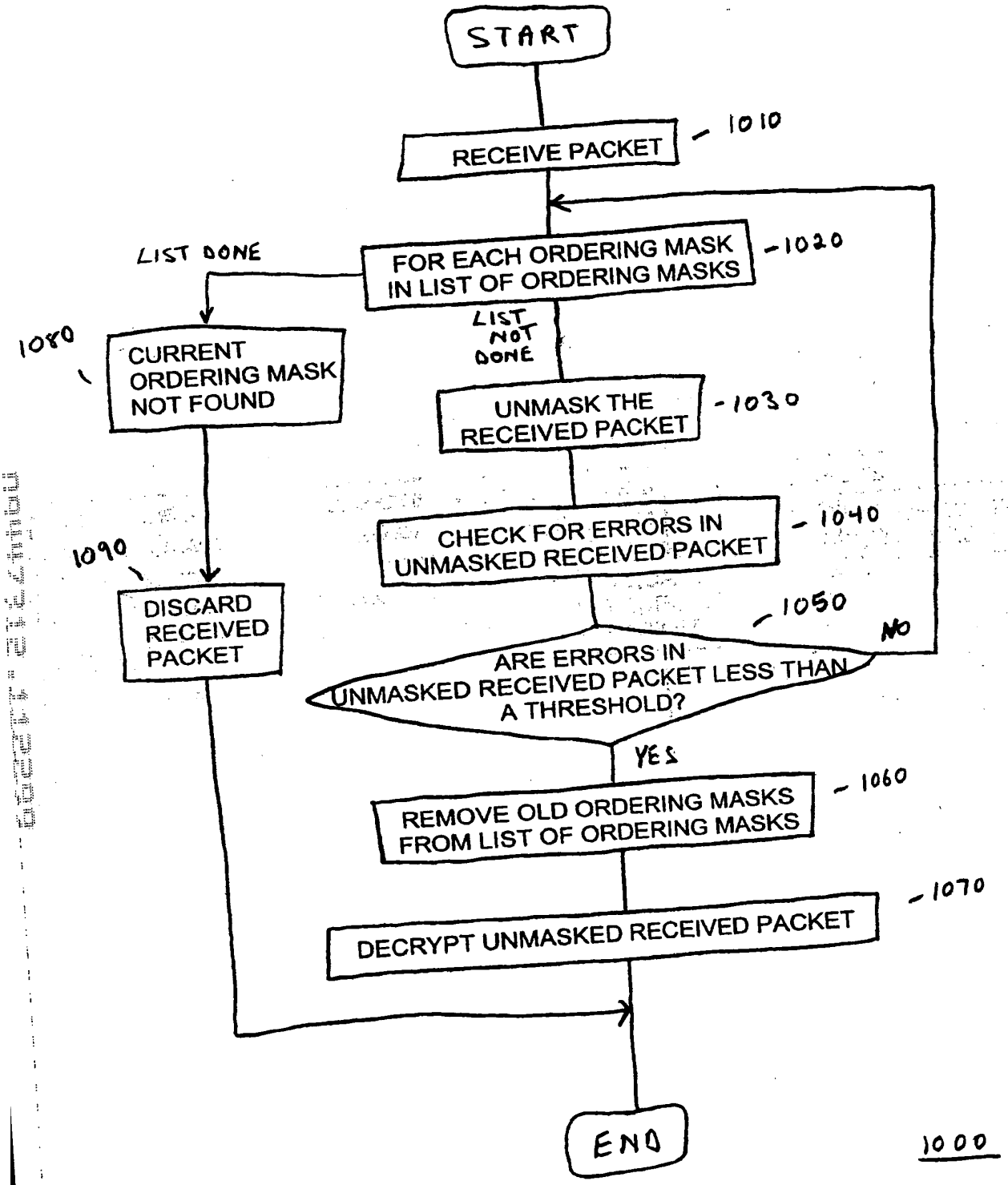

START
RECEIVE PACKET
1010
FOR EACH ORDERING MASK IN LIST OF ORDERING MASKS
1020
LIST DONE
LIST NOT DONE
1080
CURRENT ORDERING MASK NOT FOUND
UNMASK THE RECEIVED PACKET
1030
CHECK FOR ERRORS IN UNMASKED RECEIVED PACKET
1040
1090
DISCARD RECEIVED PACKET
1050
ARE ERRORS IN UNMASKED RECEIVED PACKET LESS THAN A THRESHOLD?
NO
YES
REMOVE OLD ORDERING MASKS FROM LIST OF ORDERING MASKS
1060
DECRYPT UNMASKED RECEIVED PACKET
1070
END
1000

FIG. 10

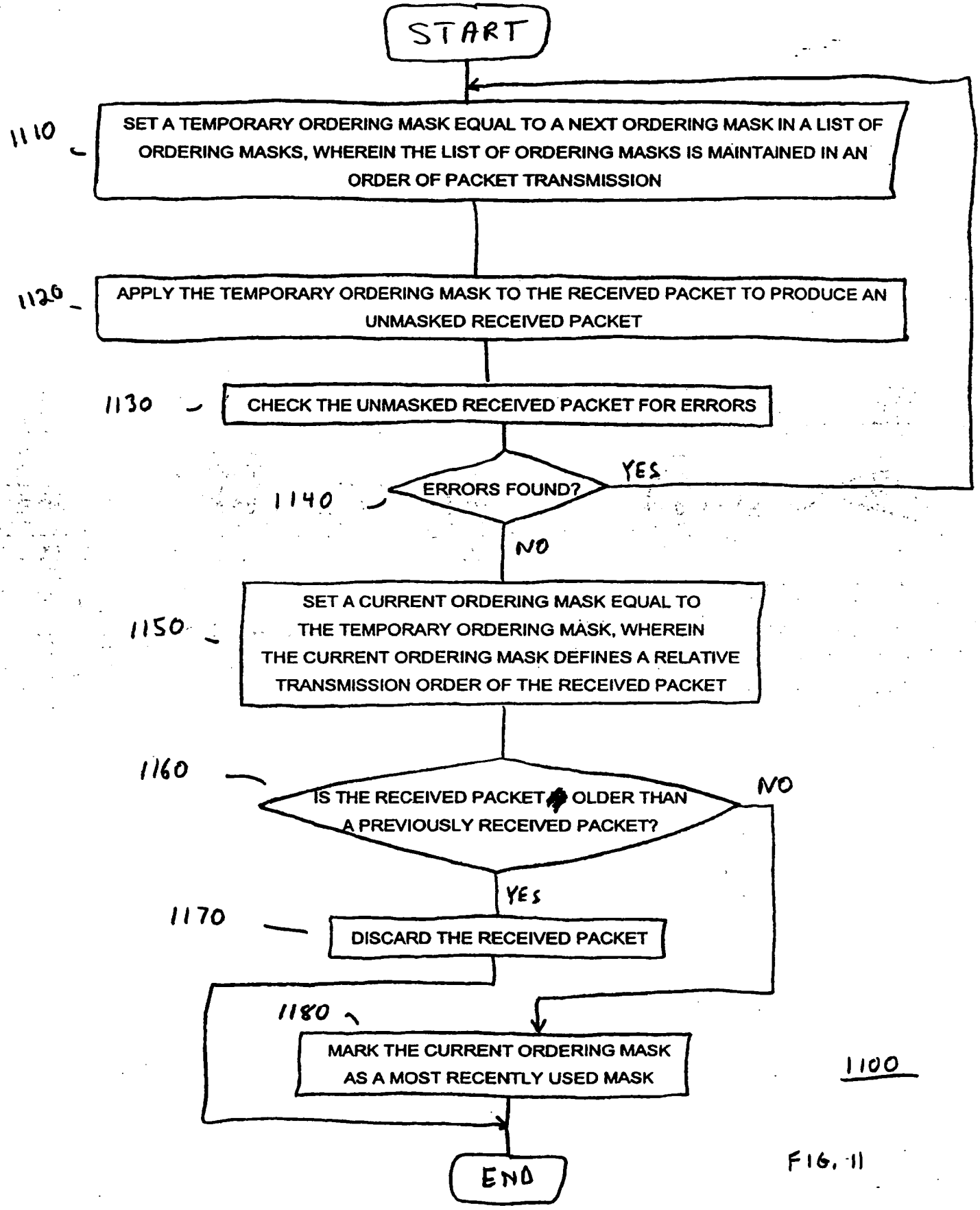
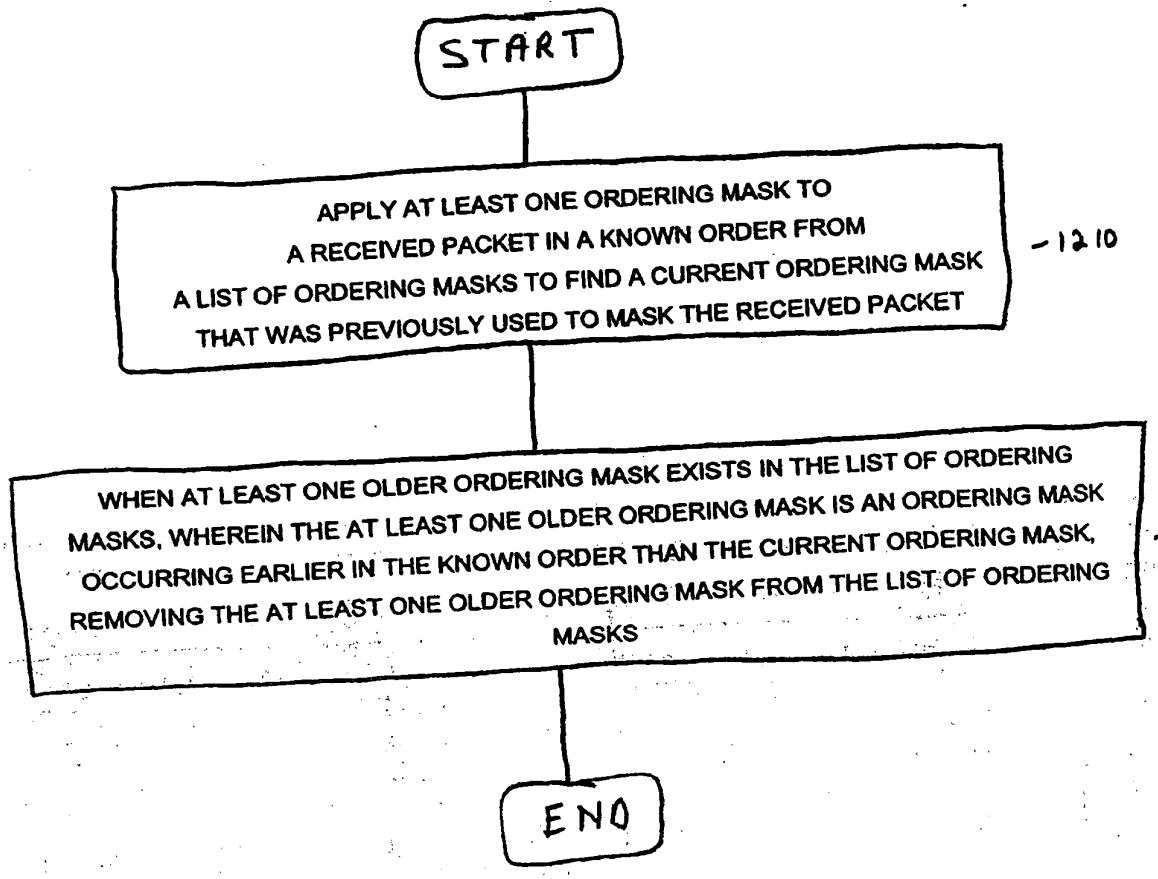

START
1110
SET A TEMPORARY ORDERING MASK EQUAL TO A NEXT ORDERING MASK IN A LIST OF ORDERING MASKS, WHEREIN THE LIST OF ORDERING MASKS IS MAINTAINED IN AN ORDER OF PACKET TRANSMISSION
1120
APPLY THE TEMPORARY ORDERING MASK TO THE RECEIVED PACKET TO PRODUCE AN UNMASKED RECEIVED PACKET
1130
CHECK THE UNMASKED RECEIVED PACKET FOR ERRORS
1140
ERRORS FOUND?
YES
NO
1150
SET A CURRENT ORDERING MASK EQUAL TO THE TEMPORARY ORDERING MASK, WHEREIN THE CURRENT ORDERING MASK DEFINES A RELATIVE TRANSMISSION ORDER OF THE RECEIVED PACKET
1160
IS THE RECEIVED PACKET OLDER THAN A PREVIOUSLY RECEIVED PACKET?
NO
YES
1170
DISCARD THE RECEIVED PACKET
1180
MARK THE CURRENT ORDERING MASK AS A MOST RECENTLY USED MASK
END
1100

FIG. 11


START
APPLY AT LEAST ONE ORDERING MASK TO A RECEIVED PACKET IN A KNOWN ORDER FROM A LIST OF ORDERING MASKS TO FIND A CURRENT ORDERING MASK THAT WAS PREVIOUSLY USED TO MASK THE RECEIVED PACKET
1210
WHEN AT LEAST ONE OLDER ORDERING MASK EXISTS IN THE LIST OF ORDERING MASKS, WHEREIN THE AT LEAST ONE OLDER ORDERING MASK IS AN ORDERING MASK OCCURRING EARLIER IN THE KNOWN ORDER THAN THE CURRENT ORDERING MASK, REMOVING THE AT LEAST ONE OLDER ORDERING MASK FROM THE LIST OF ORDERING MASKS
1220
END

1200

FIG. 12